DESIGN NUMBER D-91-417-01



PROJECT LOCATED IN CITY OF CHICAGO

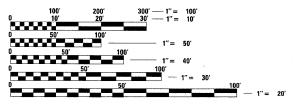
DESIGN DESIGNATION

LA SALLE ST: 8275 (20) URBAN COLLECTOR

ADT DESIGN POSTED (2020) SPEED SPEED

FRONTAGE ROAD:

LA SALLE ST



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

BEFORE EXCAVATING CALL: CHICAGO UTILITY ALERT NETWORK (312) 744-7000

CONTRACT NO. 62993

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

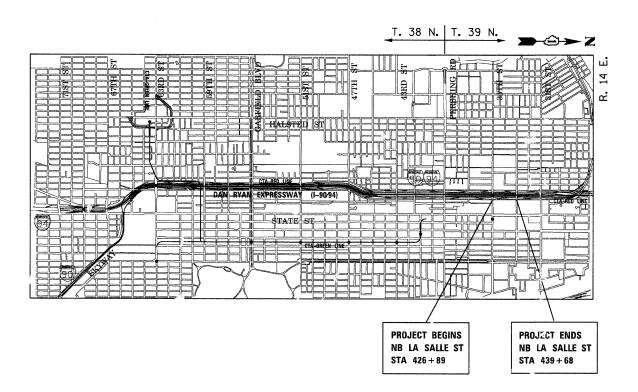
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY) SECTION 2324.6-1P-I-1

> **NORTHBOUND KNEE WALLS** (35TH ST TO 33RD ST)

> > **COOK COUNTY**

C-91-251-05



LOCATION MAP

GROSS LENGTH OF PROJECT = 1,279 FT (0.242 MILES) NET LENGTH OF PROJECT = 1,279 FT (0.242 MILES)

SECTION COUNTY 90/94 30



DEPARTMENT OF TRANSPORTATION SUBMITTED FEBRUARY 8, 20 08 Diane M. O'Kerfer get DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER March 21 20 08 Solorin ENGINEER OF DESIGN AND ENVIRONMENT Charter M. Red KO DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com

F.A.I.	SECTIO	N	COUN	ΓΥ	SHEETS	SHEET NO.
94/90			COO	<	29	2
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FED. ROA	D DIST. NO.	ILLINOIS	FED.	AID	PROJECT	

62993

GENERAL NOTES: CITY OF CHICAGO

- IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT AT (312) 747-7892 OR (312) 747-7893.
- 2. BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT 333 SOUTH STATE STREET, SUITE 410, CHICAGO, IL 60604. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.
- 3. IN LOCATIONS WHERE THE MAIN SEWERS, DRAINAGE STRUCTURES, PUBLIC, AND PRIVATE DRAIN CONNECTIONS ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER OWN EXPENSE TO THE SATISFACTION OF THE DEPARTMENT OF WATER MANAGEMENT. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
- 4. EXTREME CAUTION IS TO BE TAKEN TO ENSURE THAT NO FACILITY OWNED AND MAINTAINED BY THE DEPARTMENT OF WATER MANAGEMENT IS DAMAGED DURING CONSTRUCTION. IF ANY DAMAGE OCCURS TO ANY FACILITIES, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE COST OF REPAIRING OR REPLACING THEM.
- 5. CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES MUST NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT.
- 6. THE CHICAGO TRANSIT AUTHORITY (CTA) HAS BUS OPERATIONS ALONG WENTWORTH AVENUE/WELLS STREET. THE CONTRACTOR MUST INFORM THE CTA REPRESENTATIVE MS. CHARLENE RIFFER (GENERAL MANAGER CONSTRUCTION) OF THE ON-GOING PROJECT SCHEDULE STARTING 28 DAYS BEFORE THE START OF CONSTRUCTION AT (312) 681-3851.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:

 CONTRACT 60A04 NB FENCE AND GATES FROM 47TH PLACE TO 31ST ST.

 CONTRACT 60A79 GATEWAY LANDSCAPING AND IRRIGATION @ 35TH STREET

 CONTRACT 62301 RECONSTRUCTION OF NORTHBOUND LOCAL LANES AND RAMPS

 BETWEEN GARFIELD BOULEVARD AND 31ST ST

 CONTRACT 62583 LIGHTING AND SURVEILLANCE 31ST ST TO 1-57 INTERCHANGE
- 2. CONTRACTOR SHALL MATCH ALL WORK COMPLETED IN CONTRACT 62301
- 3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR MUST CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY IMPACT THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE MUST BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION MUST BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF ANY AND ALL SURFACE AND UNDERGROUND UTILITIES, EVEN THOUGH THEY MAY NOT BE IDENTIFIED ON THE PLANS.
- 4. THE CONTRACTOR MUST COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL THE CHICAGO UTILITY ALERT NETWORK (C.U.A.N.) AT (312) 744-7000 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, CABLE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED). THE CONTRACTOR MUST CONTACT THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT, PERMIT SECTION AT (312) 747-7893 FOR WATER AND CITY SEWER LOCATIONS.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
- 6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR MUST EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING COMMERCIAL AND RESIDENTIAL AREAS.
- . USE NO. 6 EPOXY-COATED TIE BARS CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR TYING THE CURB AND GUTTER SECTIONS TO PAVEMENT AS SHOWN ON THE PLANS, THE TIE BARS WILL NOT BE PAID FOR SEPARATELY. TIE BARS USED WITH CURB AND GUTTER MUST BE INCLUDED IN THE COST OF THE COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- 8. CHAIN LINK FENCE REMOVAL MUST BE CONSIDERED AS PART OF CLEARING.
- 9. IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED KNEE WALLS OR WHERE PROPOSED KNEE WALL TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
- 10. THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- 11. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER MUST BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS MUST REMAIN UNDISTURBED.
- 12. ALL ELEVATIONS IN THIS PLAN SET ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.

- 13 BARRICADES: THE CONTRACTOR MUST PROVIDE AND INSTALL TWO WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- 14. SUPERSTRUCTURE RATING COARSE AGGREGATE MUST BE USED IN THE CONCRETE BARRIER WALL CONCRETE MIXTURE. 2. BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE
- 15. LOCATIONS OF ACCESS CONTROL FENCING AS SHOWN ON THE PLANS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO BETTER FIT FIELD CONDITIONS.
- 16. THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, BARRIER WALLS, ELECTRICAL SYSTEMS AND DRAINAGE STRUCTURES BUILT IN CONTRACTS UNDER CONSTRUCTION DURING THE PREPARATION OF THESE PLANS IS BASED ON THE PUBLISHED CONTRACT PLAN DRAWINGS AVAILABLE DURING DESIGN. THE CONTRACTOR MUST FIELD VERIFY LIMITS, LOCATIONS AND ELEVATIONS OF THESE PREVIOUSLY CONSTRUCTED ITEMS.
- 17. CRUSHING PLANT AND CONCRETE PLANT LOCATIONS REQUIRE CITY OF CHICAGO APPROVAL.
- 18. THE CONTRACTOR IS ALERTED THAT THERE ARE EXISTING CTA UTILITY FACILITIES WITHIN, ADJACENT TO, AND CROSSING UNDER THE EXPRESSWAY FROM THE FRONTAGE ROADS TO THE CTA OPERATING AREA. THE EXACT LOCATION OF THESE FACILITIES IS NOT KNOWN. THE CONTRACTOR MUST CONTACT THE CTA AT 312-681-3860 FOR LOCATIONS OF THESE FACILITIES BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE CTA OPERATING AREA. FOR ADDITIONAL INFORMATION REGARDING BURIED CONDUITS, CONTACT MR. RICK STRAUBEL, MANAGER TECH SUPPORT, AT 312-922-0508.
- 19. THE CONTRACTOR MUST USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- 20. THE CONTRACTOR MUST MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR MUST PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR MUST PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR MUST PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK MUST NOT BE PAID FOR SEPERATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT.
- 21. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- 22. ALL RELOCATION OF EXISTING SIGNS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL CONFORM TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. EXISTING SIGNS TO BE RELOCATED IN PROPOSED CONCRETE MEDIAN SURFACE SHALL BE INSTALLED USING A SLEEVE OR BY CORING THE CONCRETE MEDIAN SURFACE. THE SLEEVE AND CORING OPERATIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER. EXISTING SIGNS TO BE RELOCATED ONTO PROPOSED KNEE WALL FOOTINGS SHALL BE INSTALLED ACCORDING TO SECTIONS 728 AND 731 OF THE STANDARD SPECIFICATIONS. LABOR AND MATERIALS FOR RELOCATION OF EXISTING SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE FLUTED KNEE WALL.
- 23. THE INTENT OF THE CONTRACT DOCUMENTS IS TO CONSTRUCT THE FLUTED KNEE WALL BEHIND THE EXISTING CURB AND GUTTER, ANY DAMAGE TO THE EXISTING CURB AND GUTTER SHALL BE REPAIRED TO THE ORIGINAL CONDITION OF THE CURB AND GUTTER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

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REVISIONS
NAME
DATE
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (35TH ST TO 33RD ST)

GENERAL NOTES

SCALE: NONE DATE: 02/08/08

DRAWN BY: JDC CHECKED BY: RS

SUMMARY OF QUANTITIES

				100% STATE
CODE NO.	ITEM	UNIT	QUANTITY	7000
20200100	EARTH EXCAVATION	CU YD	280	280
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	59	59
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	209	209
25000210	SEEDING, CLASS 2A	ACRE	0.16	0.16
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14	14
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14	14
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14	14
25000800	GROUND PREPARATION FOR SEEDING	ACRE	0.10	0.10
25100630	EROSION CONTROL BLANKET	SQ YD	484	484
42001300	PROTECTIVE COAT	SQ YD	58	58
44002020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	359	359
44004250	PAVED SHOULDER REMOVAL	SQ YD	162	162
50300225	CONCRETE STRUCTURES	CU YD	3.7	3.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12.9	12.9
50300300	PROTECTIVE COAT	SQ YD	340	340
50300510	RUSTICATION FINISH	SQ FT	69	69
50800 2 05	REINFORCEMENT BARS, EPOXY COATED	POUND	480	480
60618324	CONCRETE MEDIAN SURFACE, 6 (SPECIAL)	SQ FT	410	410
66400550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	1,138	1,138
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	26	26
X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	1,230	1,23
X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	308	308
X0324640	FLUTED KNEE WALL	FOOT	1,187	1,187
X0350810	BOLLARD REMOVAL	EACH	3	3
X6065740	CONCRETE MEDIAN SURFACE, 5" (MODIFIED)	SQ FT	112	112
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1	1
Z0030020	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1
Z0076600	TRAINCES	-HOUR-		
İ	CURB REMOVAL (PARTIAL)	FOOT	92	92

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62993

INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND PROJECT COMMITMENTS
3	SUMMARY OF QUANTITIES / INDEX / HIGHWAY STANDARDS
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5-9	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
10-13	EXISTING AND PROPOSED KNEE WALL PLANS
14-17 A	STRUCTURAL DETAILS
18	BD-51 DISTRICT 1, BENCHING DETAIL FOR EMBANKMENT WIDENING
19	TC-10 DISTRICT 1, TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
20	TC-17 DISTRICT 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
21	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
22	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN
23-29	CROSS SECTIONS

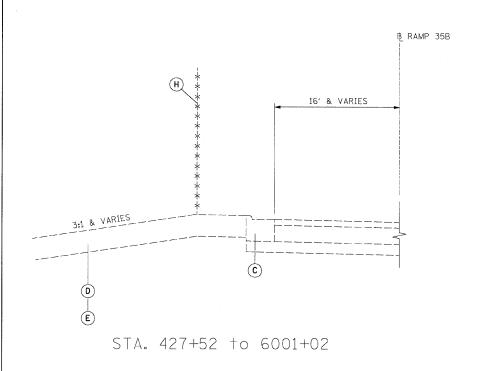
IDOT HIGHWAY STANDARDS

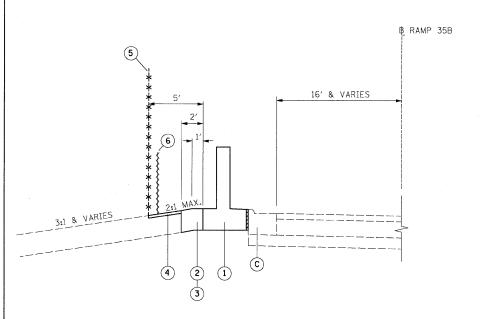
100	THOMAT STANDARDS	
SHEET	DESCRIPTION	
000001-25 001001-21 001006 664001-01 701601-25 701701-25 701801-23 701901 720001 720006-01 728001	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT CHAIN LINK FENCE URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN URBAN LANE CLOSURE, MULTILANE INTERSECTION LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, for speeds < 45 mph TRAFFIC CONTROL DEVICES SIGN PANEL MOUNTING DETAILS SIGN PANEL ERECTION DETAILS TELESCOPING STEEL SIGN SUPPORT	
731001	BASE FOR TELESCOPING STEEL SIGN SUPPORT	

SOQ-1

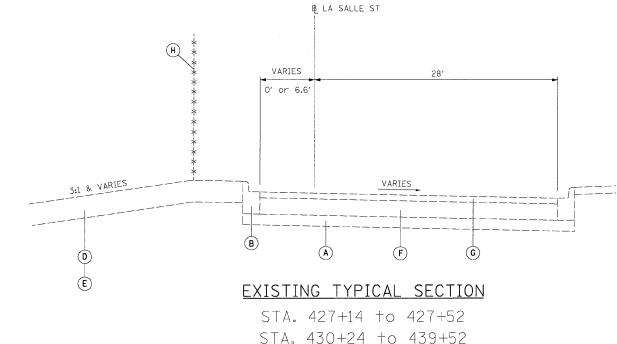
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	F.A.I. 94/90 (DAN F	RYAN EXPRESSWAY)	. P₩	
	NORTHBOUND KNEE WALLS	(35TH ST TO 33RD ST)	5:32	
	SUMMARY OF	QUANTITIES	30	
	INDEX OF	F SHEETS		
	HIGHWAY STANDARDS			
	SCALE: NONE	DRAWN BY: JDC	2/20	
	DATE: 02/08/08	CHECKED BY: DDM	2/1	

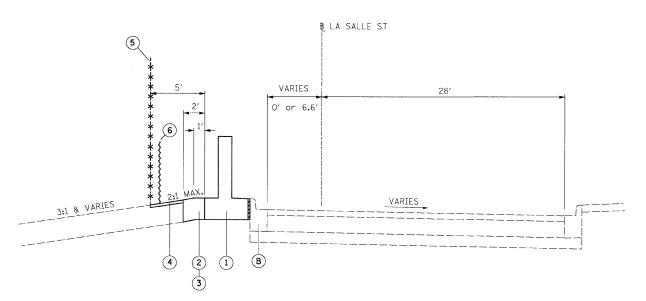
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STA. 427+52 to 6001+02





PROPOSED TYPICAL SECTION

STA. 427+14 to 427+52 STA. 430+24 to 439+52

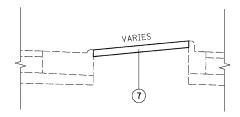
IOTES:

- 1. THICKNESS OF EXISTING PAVEMENT AND GRANULAR MATERIAL ARE TAKEN FROM RECORD DRAWING PLANS.
- 2. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.

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6299	93		•	2324	.6-1P	-I-1	

EXISTING LEGEND

- GRANULAR MATERIAL, 6"
- COMBINATION CONCRETÉ CURB AND GUTTER, TYPE B-6.12
- C COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- (D) TOPSOIL, 4"
- (E) TOPSOIL, 12"
- F PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- G BITUMINOUS CONCRETE, 3"
- (H) CHAIN LINK FENCE, 4'



TYPICAL MEDIAN TREATMENT

STA. 429+84.73 to 430+71

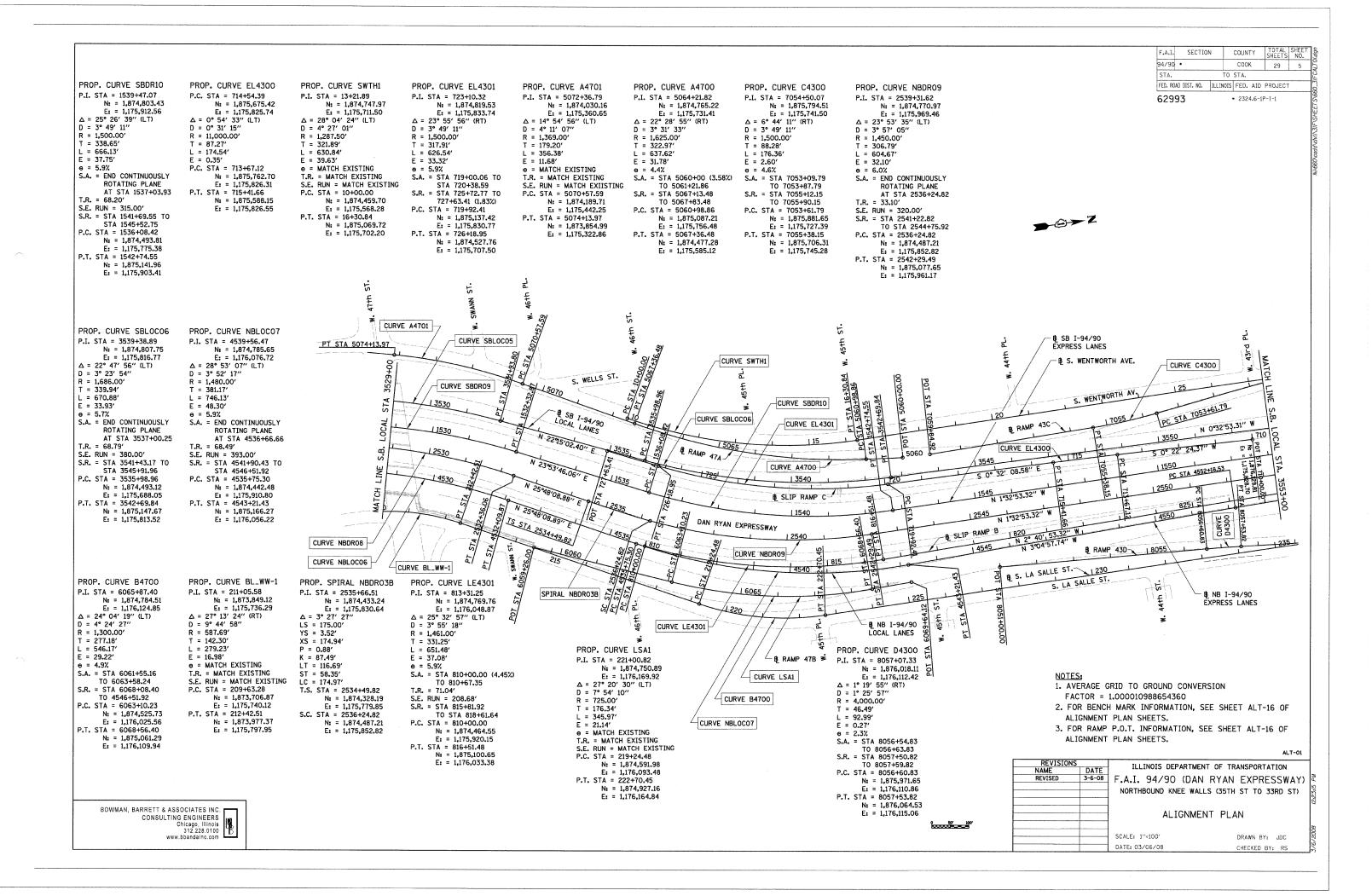
PROPOSED LEGEND

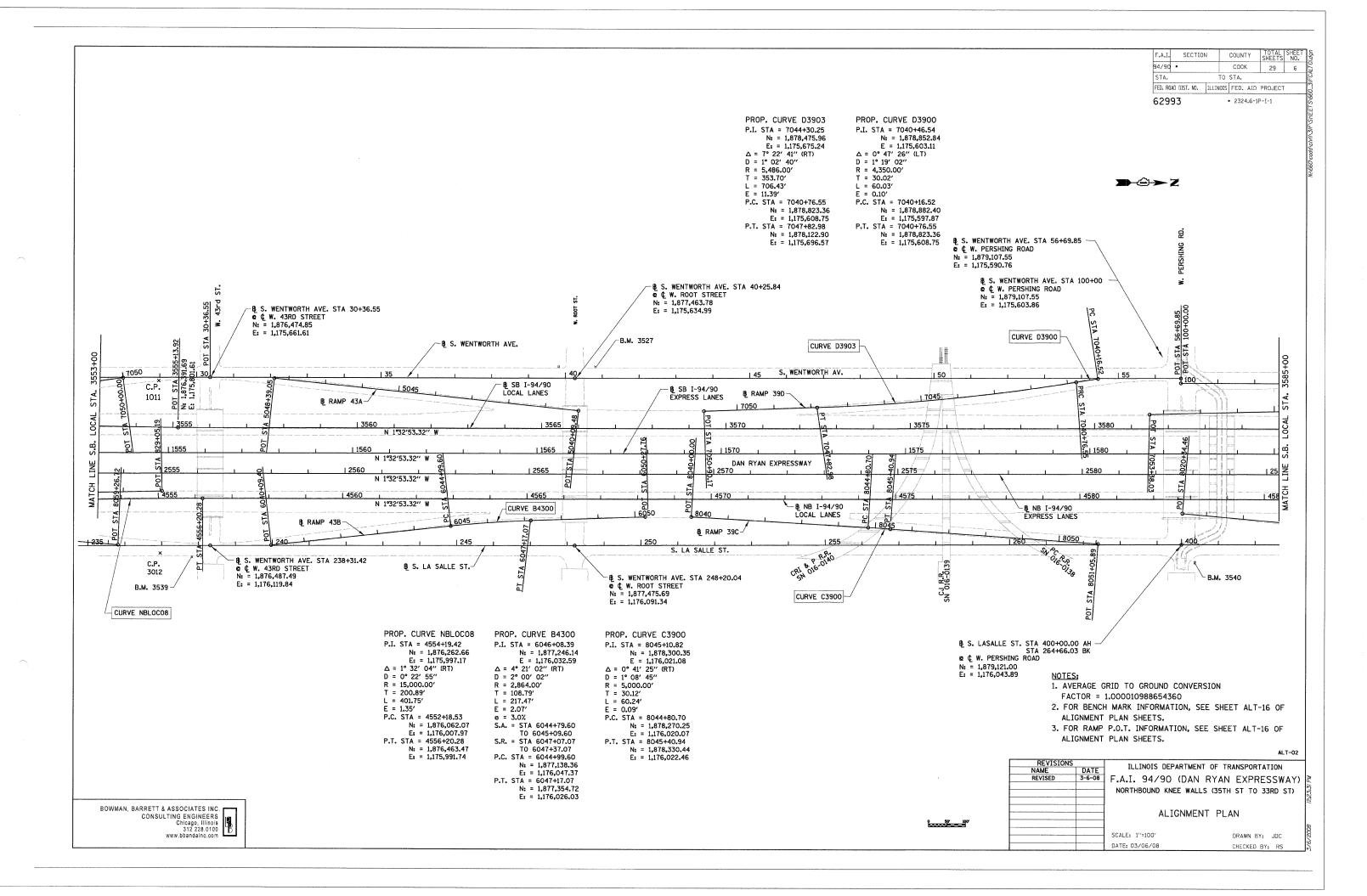
- 1 FLUTED KNEE WALL
- SEEDING CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- (3) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 12"
 / EROSION CONTROL BLANKET
- (4) SEEDING, CLASS 2A / GROUND PREPARATION FOR SEEDING / EROSION CONTROL BLANKET
- 5 CHAIN LINK FENCE, 4' (SPECIAL)
- 6 SEDIMENT CONTROL, SILT FENCE
- (TO BE REMOVED AT PROJECT COMPLETION)
- 7 CONCRETE MEDIAN SURFACE, 6" (SPECIAL)

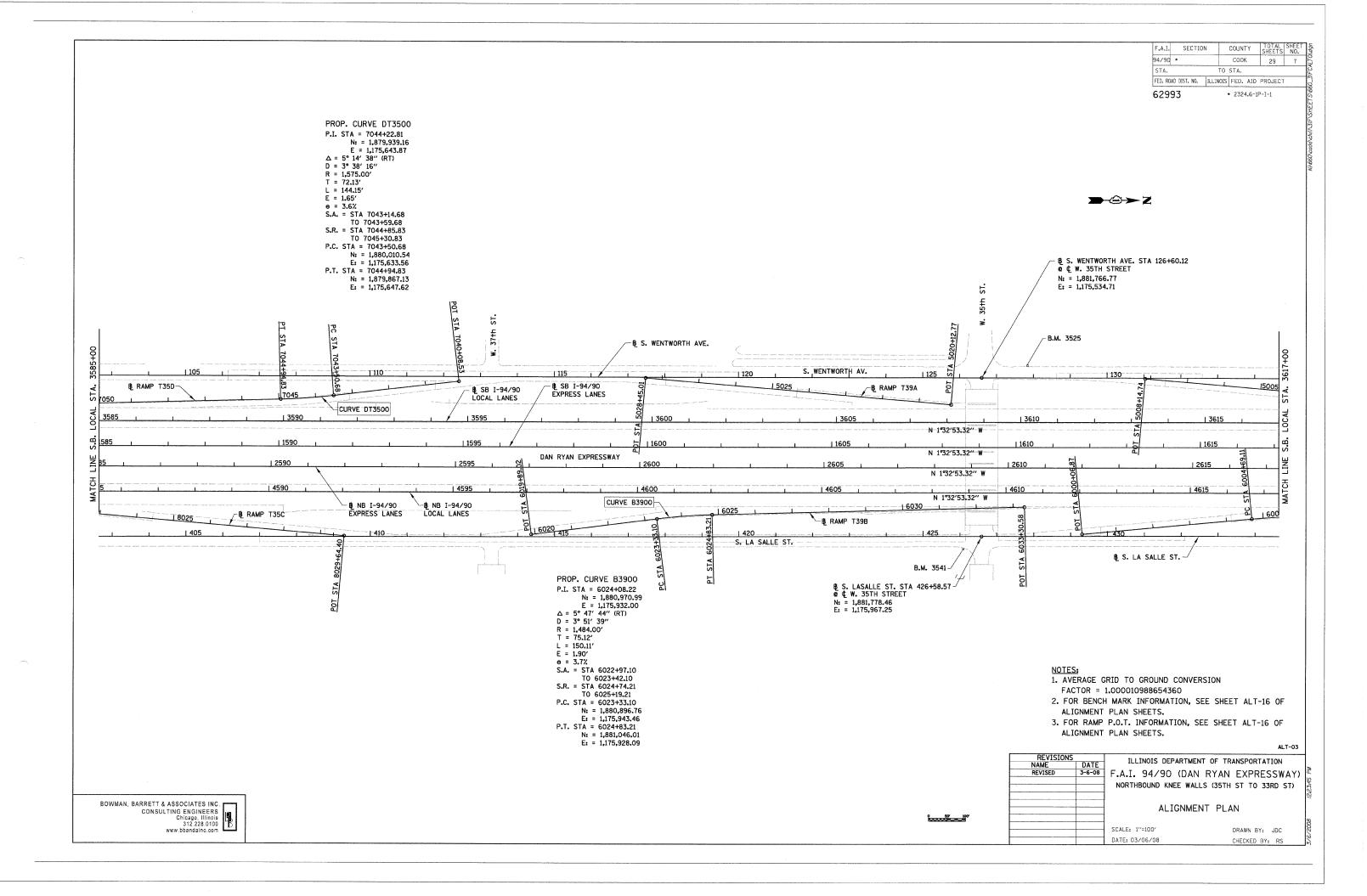
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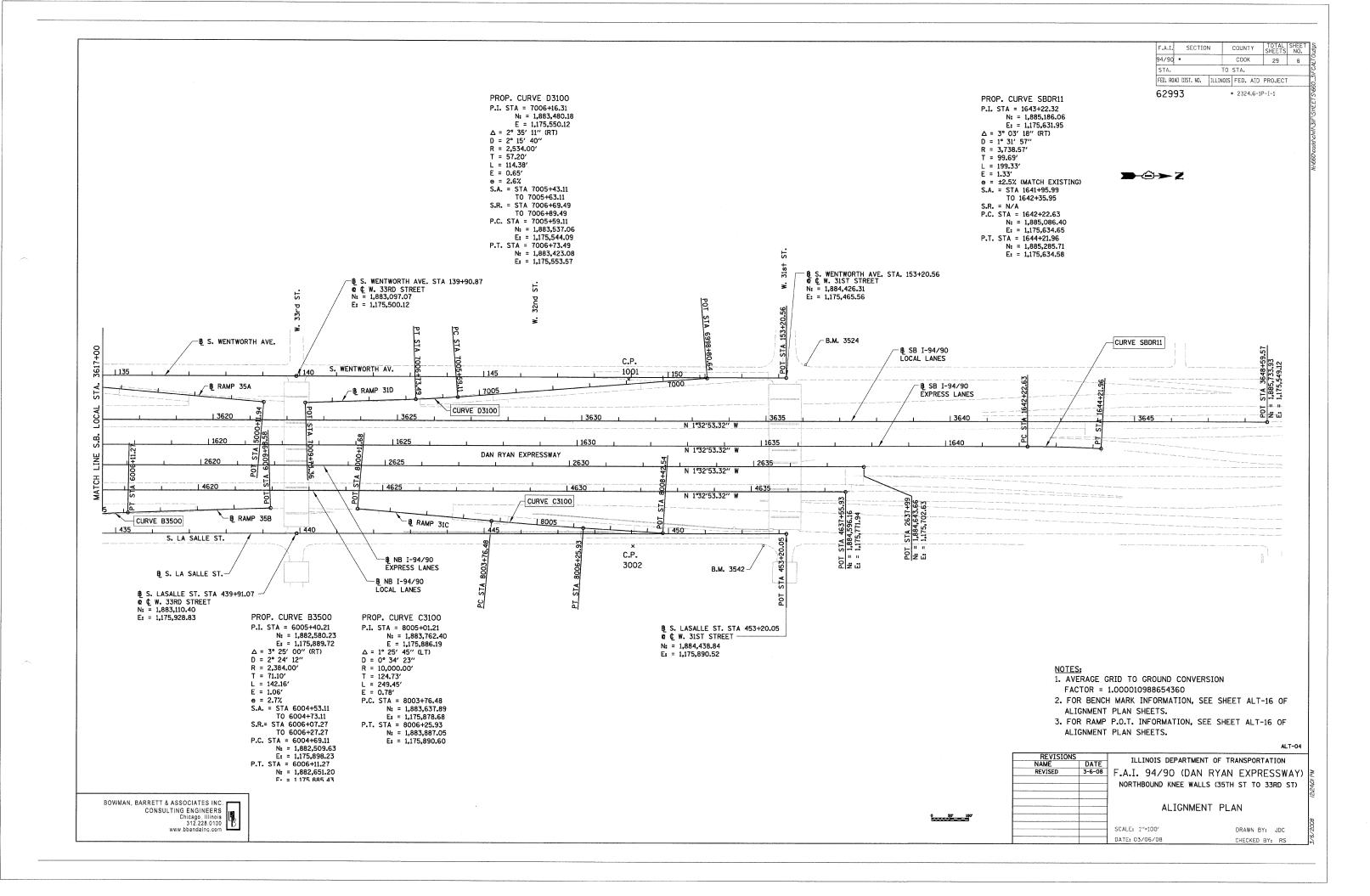
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NAME	DATE	ILLINOIS DEFARIMENT OF TRANSPORTATION
REVISED	3-6-08	F.A.I. 94/90 (DAN RYAN EXPRESSWAY
		NORTHBOUND KNEE WALLS (35TH ST TO 33RD ST)
		TYPICAL SECTIONS

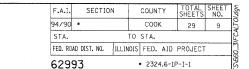
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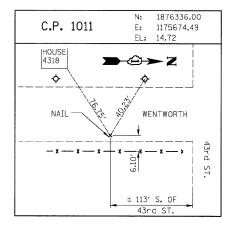


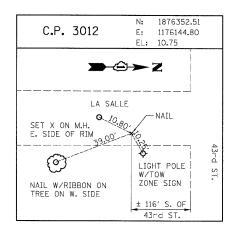


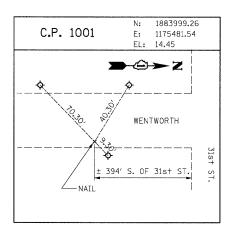


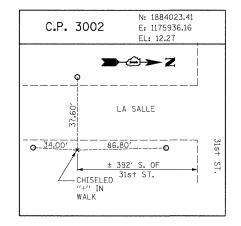












RAMP P.O.T. COORDINATE INFORMATION

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP 47A	5060+00.00	1,875,185.77	1,175,764.15
END	RAMP 47A	5074+13.97	1,873,854.99	1,175,322.86
BEGIN	RAMP 47B	6059+26.00	1,874,166.99	1,175,887.94
END	RAMP 47B	6069+64.12	1,875,168.85	1,176,104.15
BEGIN	RAMP 43C	7050+00.00	1,876,238.80	1,175,669.59
END	RAMP 43C	7059+84.92	1,875,259.95	1,175,764.44
BEGIN	RAMP 43D	8051+00.00	1,875,411.12	1,176,092.10
END	RAMP 43D	8059+26.72	1,876,237.16	1,176,124.86
BEGIN	RAMP 43A	5040+09.48	1,877,475.98	1,175,723.30
END	RAMP 43A	5048+39.05	1,876,648.91	1,175,658.90
BEGIN	RAMP 43B	6040+09.40	1,876,652.70	1,176,113.96
END	RAMP 43B	6050+27.76	1,877,664.85	1,176,007.29
BEGIN	RAMP 39D	7040+16.52	1,878,882.40	1,175,597.87
END	RAMP 39D	7050+90.17	1,877,816.27	1,175,715.09
BEGIN	RAMP 39C	8040+00.00	1,877,789.82	1,176,003.91
END	RAMP 39C	8051+05.89	1,878,894.81	1,176,048.24

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP T35D	7040+08.53	1.880.349.18	1,175,584,62
END	RAMP T35D	7053+38.03	1,879,025.07	1,175,691.43
BEGIN	RAMP T35C	8020+34.46	1.879.121.15	1,175,958.93
END	RAMP T35C	8029+64.40	1,880,049.40	1,176,014.92
DEOTA	DAMP 7704	5000 440 77	1 001 005 70	1 175 610 15
BEGIN END	RAMP T39A RAMP T39A	5020+12.77 5028+45.01	1,881,685.70 1.880.854.96	1,175,610.45 1,175,560,34
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
BEGIN	RAMP T39B	6019+89.02	1,880,556.70	1,175,995.95
END	RAMP T39B	6033+30.58	1,881,892.23	1,175,884.04
BEGIN	RAMP 35A	5000+11.94	1,883,011.02	1,175,573.65
END	RAMP 35A	5008+14.74	1,882,209.69	1,175,525.14
BEGIN	RAMP 35B	6000+06.87	1,882,050.72	1,175,953.56
END	RAMP 35B	6009+98.58	1,883,037.81	1,175,862.08
BEGIN	RAMP 31D	6998+80.64	1,884,211,76	1,175,472.66
END	RAMP 31D	7009+73.36	1,883,123.75	1,175,571.65
BEGIN	RAMP 31C	8000+11.68	1.883.273.75	1,175,856,72
END	RAMP 31C	8008+42.54	1,884,103.52	1,175,898.24

BENCH MARK NO. 3524 ELEV. 15.17

DESCRIPTION:

CROSS CUT ON NORTH FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 31st ST. AND WENTWORTH AVE.

BENCH MARK NO. 3525

CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER, OF 35th ST. AND WENTWORTH AVE.

BENCH MARK NO. 3526 ELEV. 17.37

CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE WENTWORTH GARDEN OFFICE ALONG THE WEST SIDE OF WENTWORTH AVE.

BENCH MARK NO. 3527 ELEV. 15.63

DESCRIPTION:

CROSS CUT ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ROOT ST. AND WENTWORTH AVE.

BENCH MARK NO. 3539 ELEV. 13.10

DESCRIPTION: CROSS CUT ON EASTERLY BOLT OF LIGHT POLE BASE AT THE SOUTHEAST CORNER OF 43rd ST. AND LA SALLE ST.

BENCH MARK NO. 3540

DESCRIPTION:

SQUARE CUT ON THE SOUTHWEST CORNER OF THE TRAFFIC CONTROL BOX AT THE NORTHEAST CORNER OF 39th ST. AND LA SALLE ST.

BENCH MARK NO. 3541 ELEV. 14.78

CROSS CUT ON THE SOUTHWEST BOLT OF LIGHT POLE BASE AT THE SOUTH EAST CORNER OF 35th ST. AND LA SALLE ST.

BENCH MARK NO. 3542 ELEV. 13.57

DESCRIPTION:

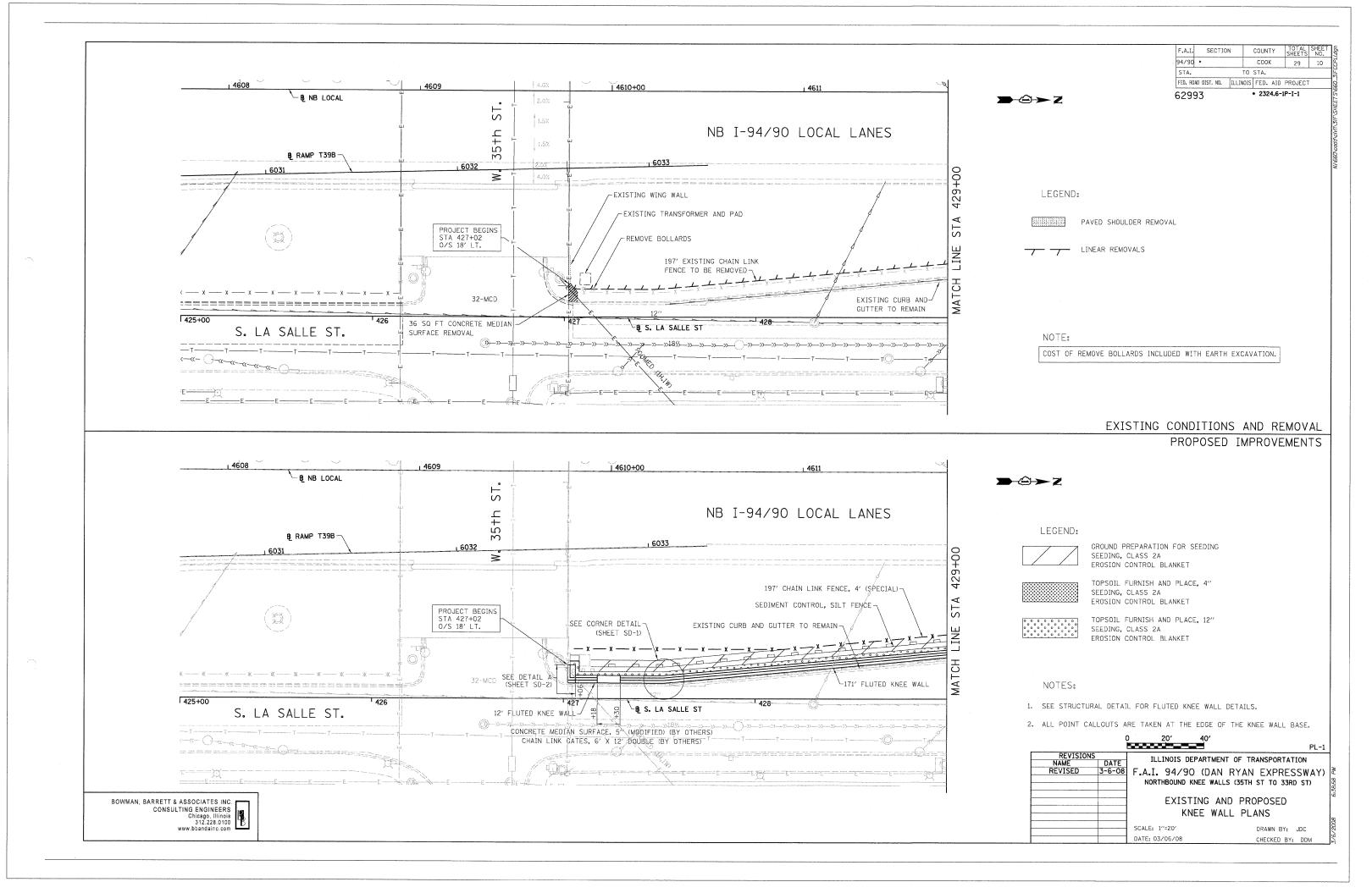
CROSS CUT ON THE EASTERLY FLANGE BOLT OF THE FIRE HYDRANT AT THE INTERSECTION OF 31st ST. AND LA SALLE ST.

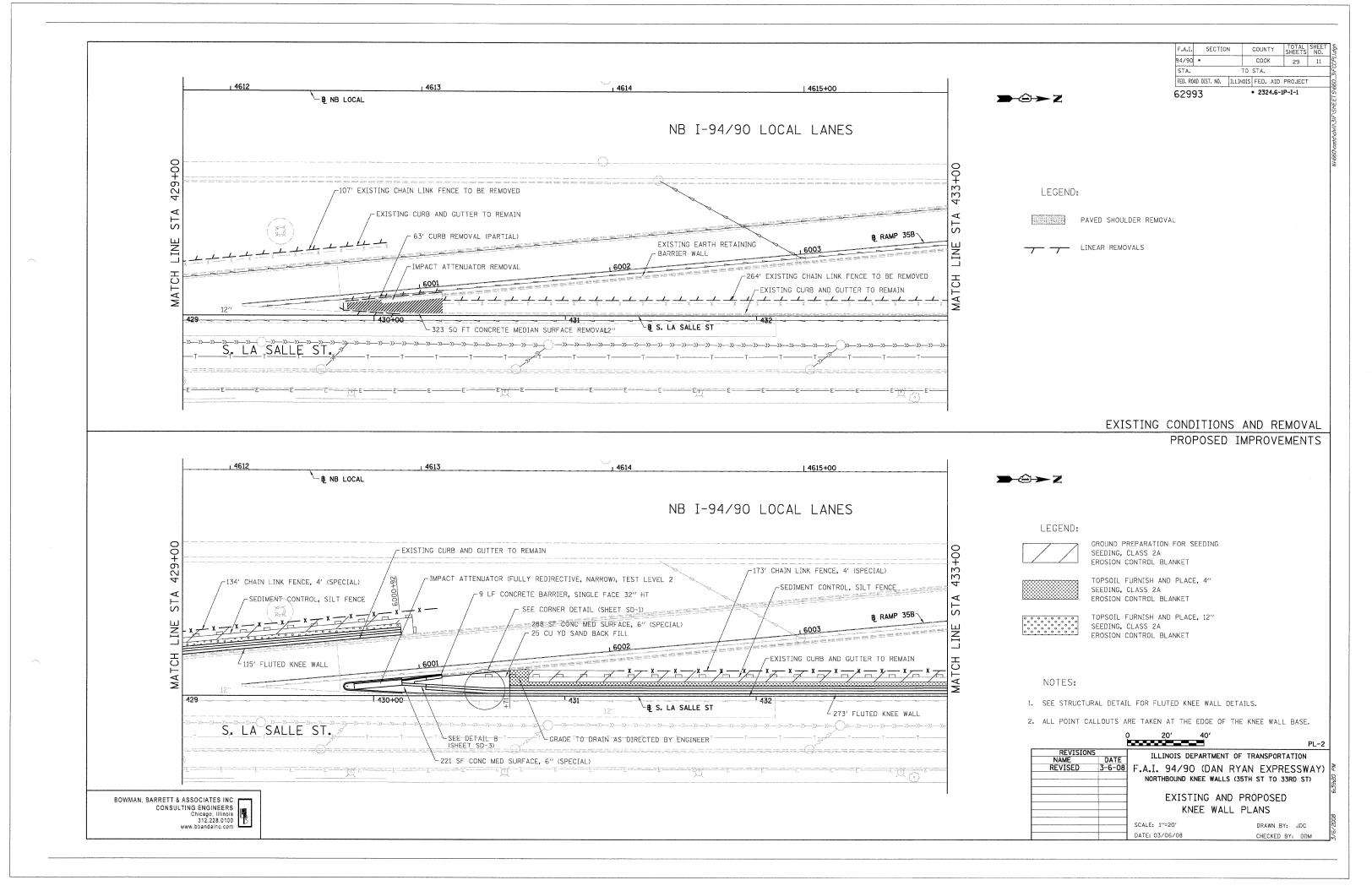
ALT-05

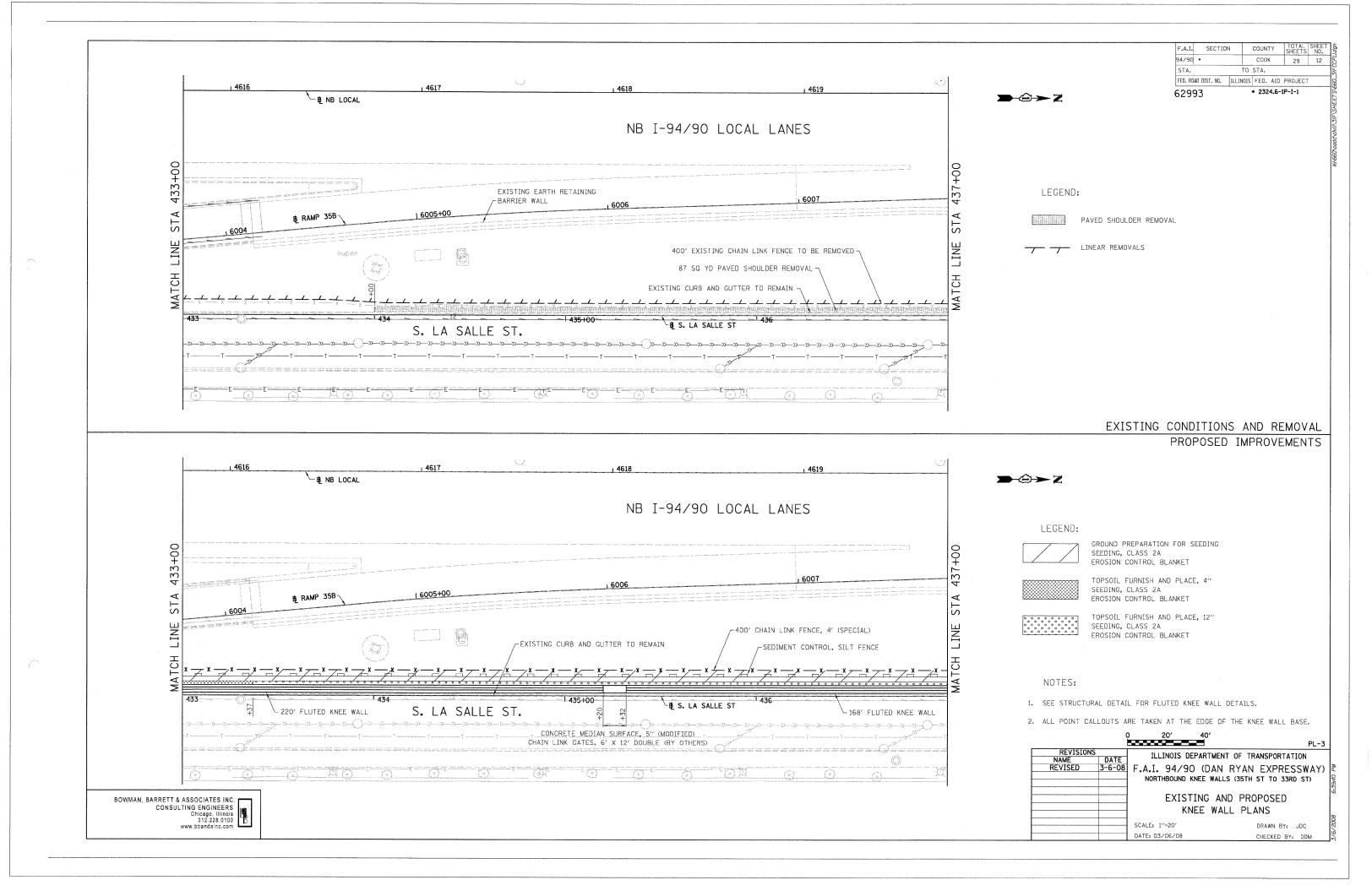
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) NORTHBOUND KNEE WALLS (35TH ST TO 33RD ST) ALIGNMENT PLAN

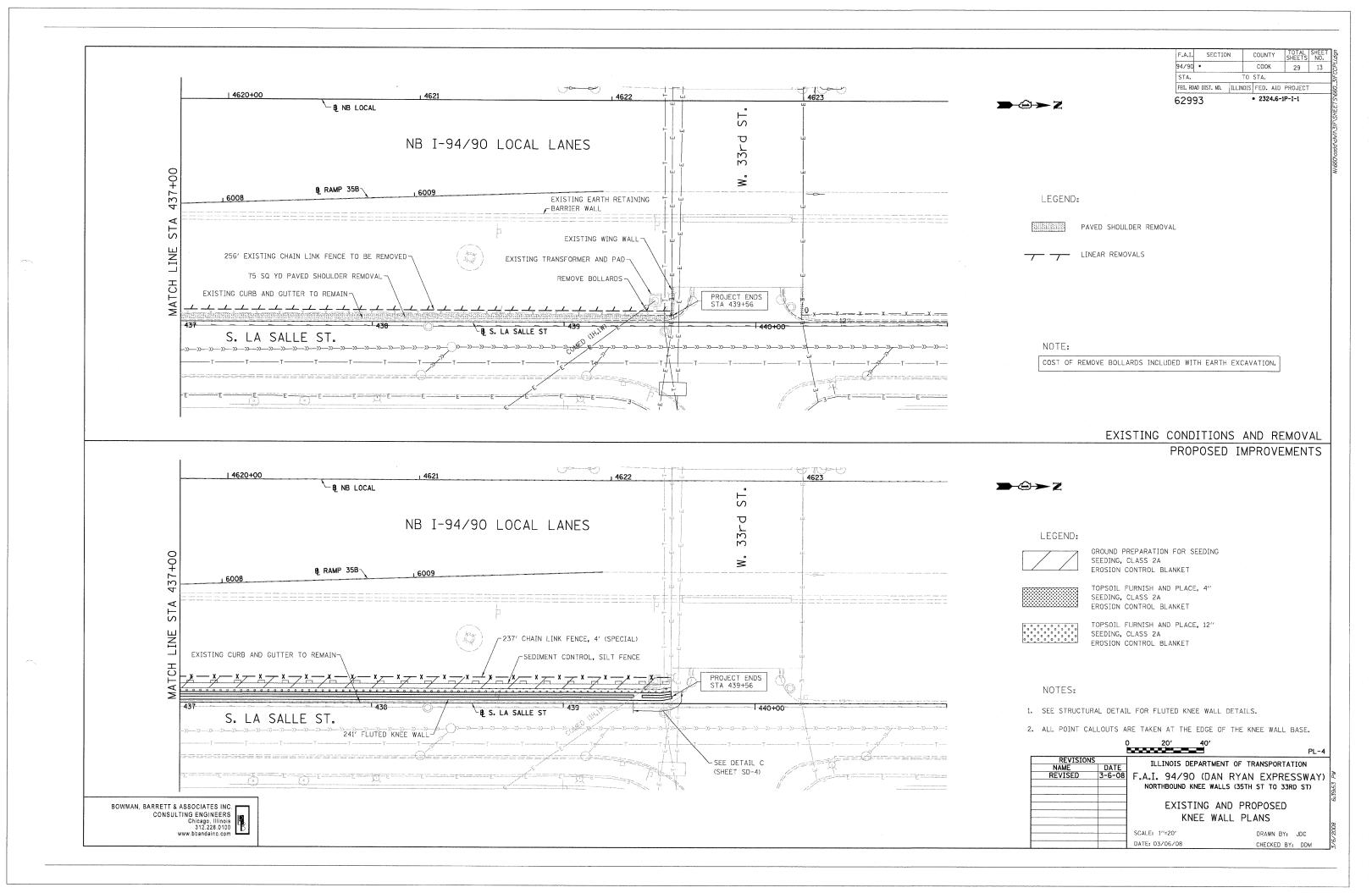
BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

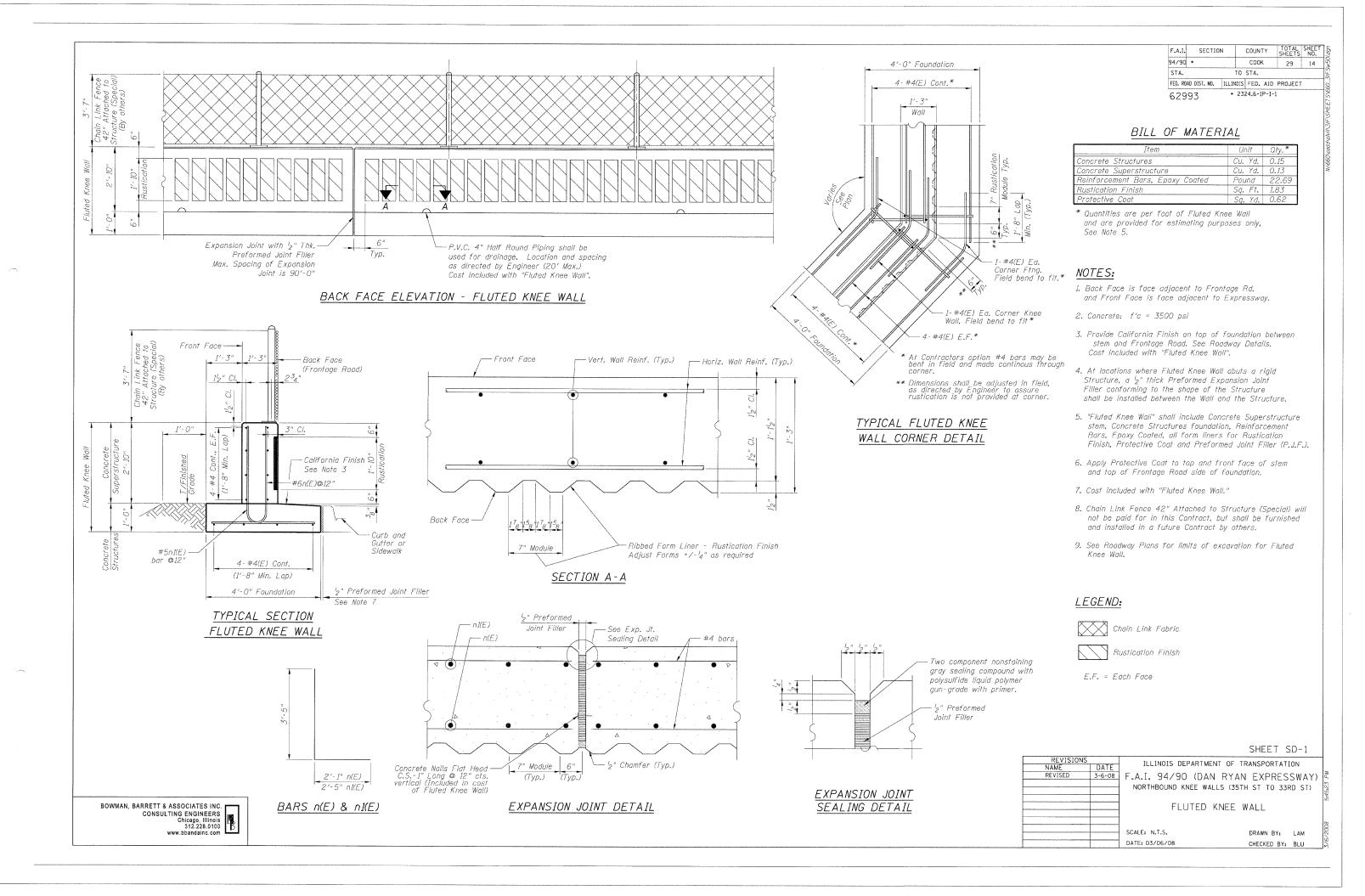
SCALE: 1"=100' DRAWN BY: JDC DATE: 03/06/08 CHECKED BY: RS

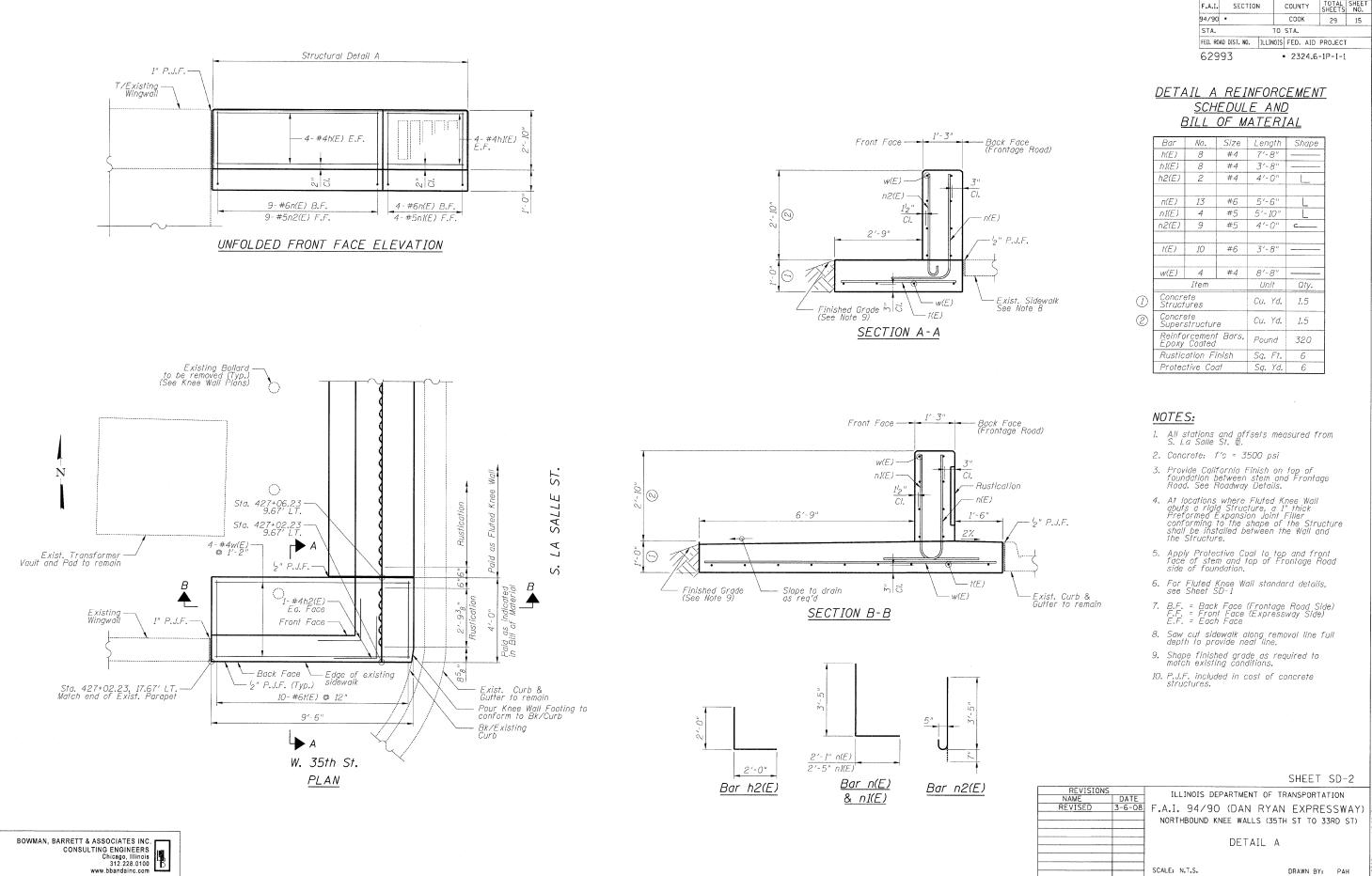










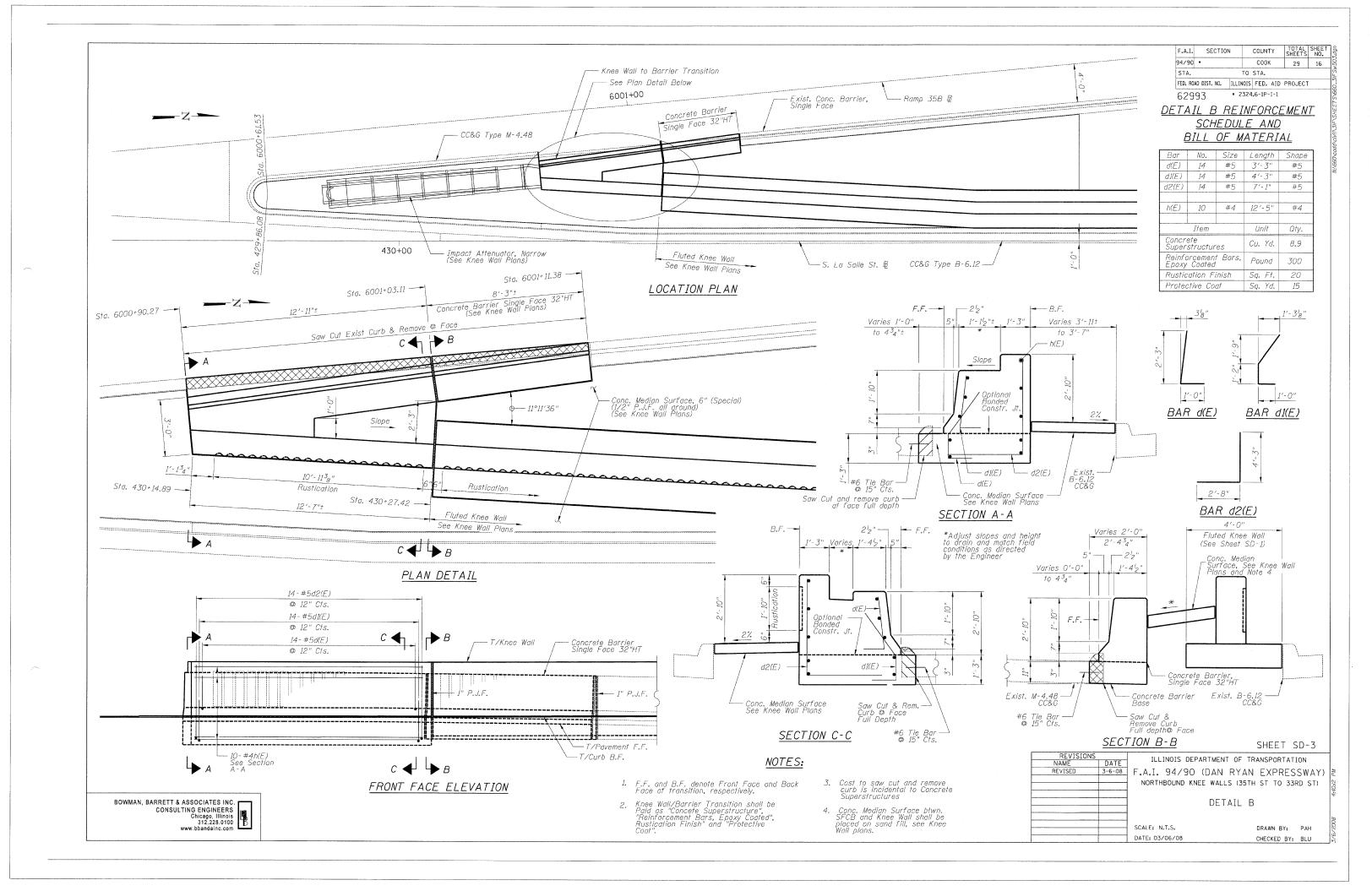


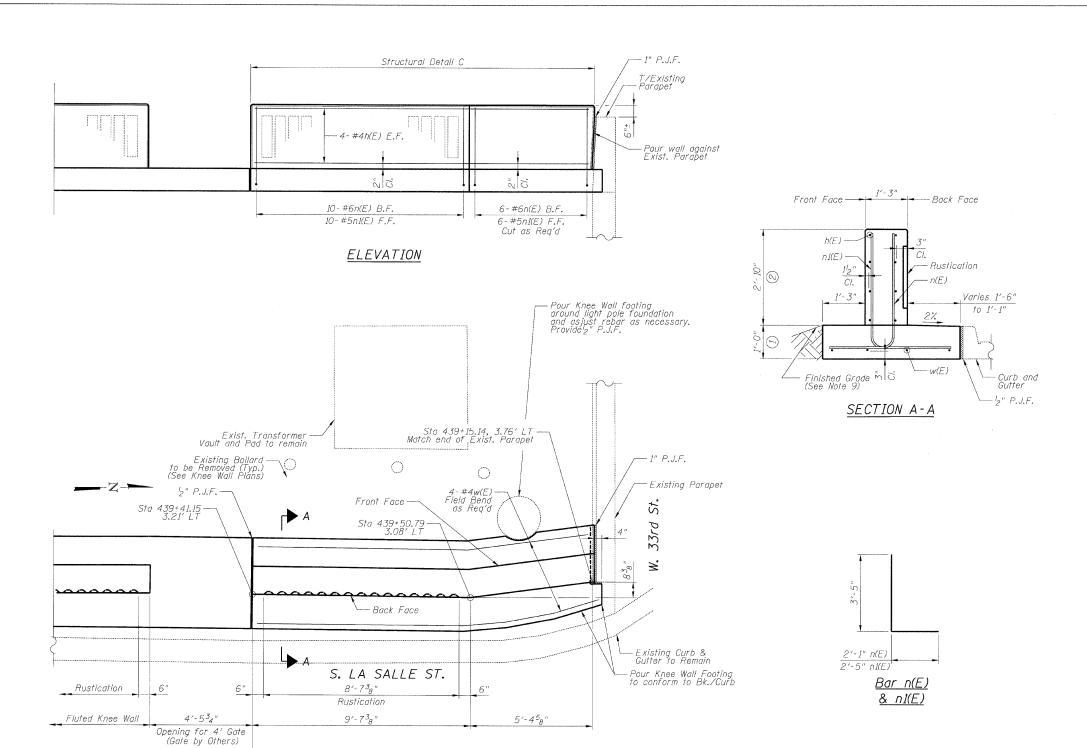
DRAWN BY: PAH

CHECKED BY: BLU

SCALE: N.T.S.

DATE: 03/06/08





62993 • 2324.6-1P-I-1

<u>DETAIL C REINFORCEMENT</u> <u>SCHEDULE AND</u> BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	14'-8"	
n(E)	16	#6	5′-6"	L
n1(E)	16	#5	5′- <i>10</i> "	L
w(E)	4	#4	14'-8"	

	Item		Unit	Qty.
Concr Struci			Cu. Yd.	2.3
	Concrete Superstructure			2.0
Reinfo Epoxy	rcemen Coated	Pound	350	
Rustic	ation F	Sq. Ft.	16	
Protec	tive Co	at	Sq. Yd.	10

NOTES:

- 1. All stations and offsets measured from S. La Salle St. B.
- 2. Concrete: f'c = 3500 psi
- Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details,
- 4. At locations where Fluted Knee Wall abuts a rigid Structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
- 5. Apply Protective Coat to top and front face of stem and top of Frontage Road side of foundation.
- 6. For Fluted Knee Wall standard details, see Sheet SD-1
- 7. B.F. = Back Face (Frontage Road Side) F.F. = Front Face (Expressway Side) E.F. = Each Face
- 8. Shape finished grade as required to match existing conditions.
- 9. P.J.F. included in cost of concrete structures.

SHEET SD-4

REVISIONS
NAME DATE
REVISED 3-6-08
F.A.I. 94/90
NORTHBOUND KNI

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (35TH ST TO 33RD ST)

DETAIL C

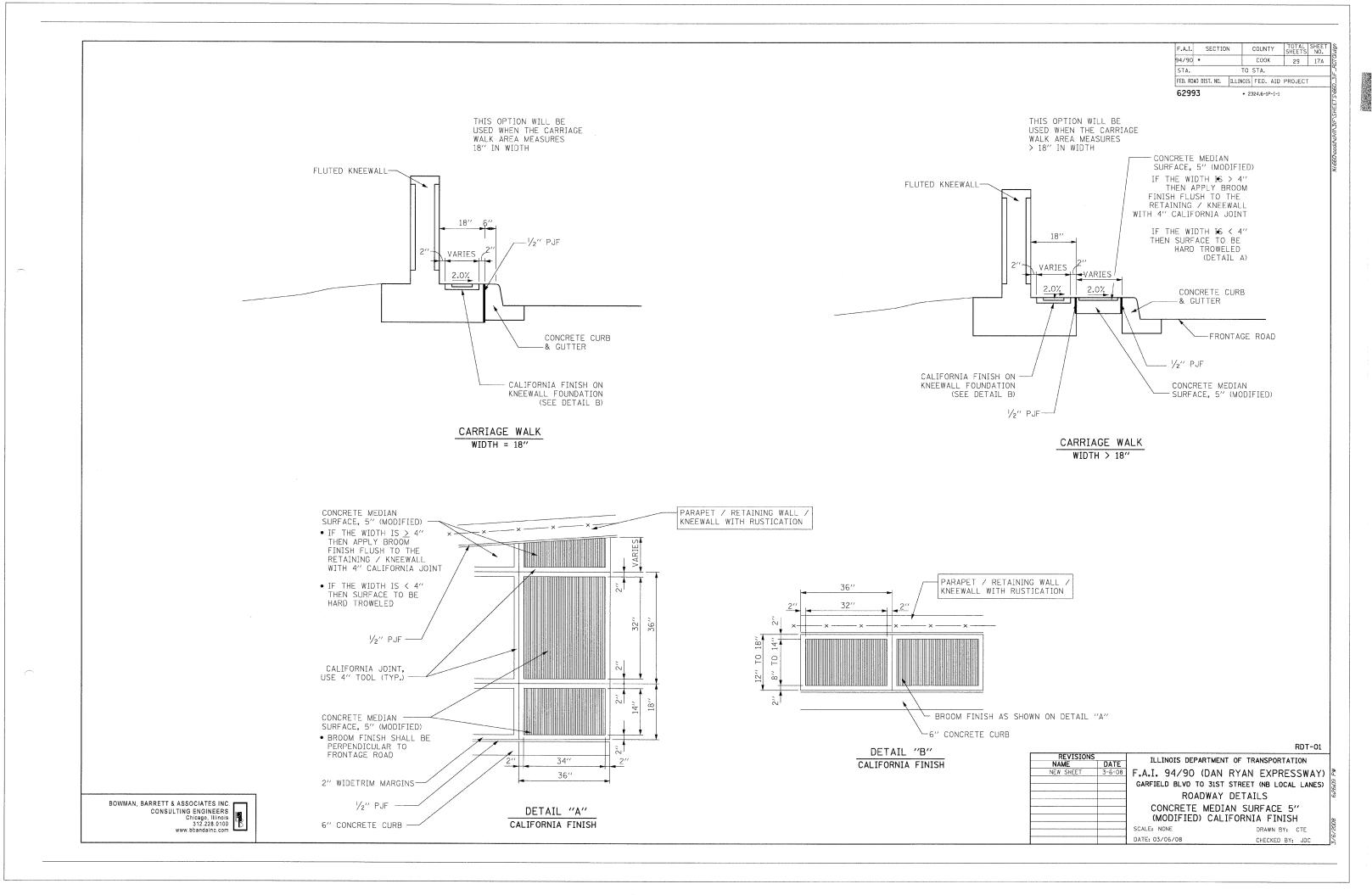
SCALE: N.T.S. DATE: 03/06/08 DRAWN BY: LAM
CHECKED BY: BLU

PLAN

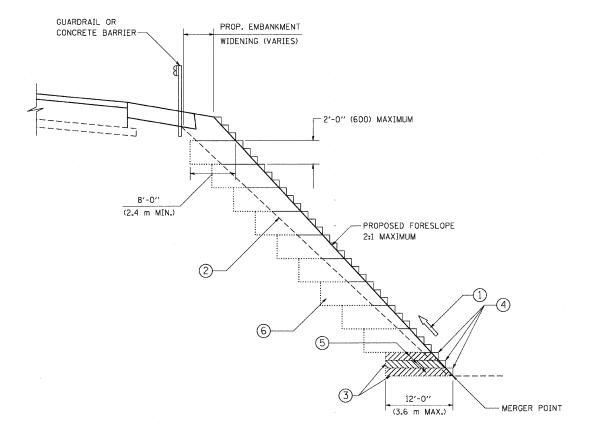
Paid as indicated in Bill of Material

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

Paid as Fluted Knee Wall



			CON	TRA	CT NO.	
F.A. RTE.	SECTION	С	OUNT'	Y	TOTAL SHEETS	SHEET NO.
94/90	*		COO	K	29	18
STA.		TO	STA.			
FED. ROAD	DIST. NO.	ILLINOIS	FED.	AID	PROJECT	-



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- ONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- 3 BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 4 TRIM TO FINAL SLOPE.
- © EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

UNLESS OTHERWISE SHOWN.						
REVISIONS		ILL INOIS	DEPARTMENT OF TE	PANCHONTATION		
NAME	DATE	ILLINOI.	DEFARTIMENT OF TH	ANSFORTATION		
	06/16/04					
		BENCHING DETAIL		TATI		
		FOR EMBANKMENT WIDENING				
		SCALE: VERT.	NONE			
		HORIZ.	DRAWN BY: CADD			
1				CHECKED BY: S.E.B.		
				BD-51		

ATE = 3/5/2007 WHE = Ki\diststd\bd5i.dgn CALE = 50.0000 '/ IN.

-LOT DATE = 3/5/2 -TLE NAME = Ki\dis

TOTAL SHEE SHEETS NO. F.A. RTE. 94/90 COOK 29 19 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ROAD CONSTRUCTION TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. AHEAD TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 200'± (60 m±)-21 (530) AMBER LIGHTS ON EACH. DRIVEWAY STREET; SPEED 40 MPH OR LESS 200'± (60 m±) 09) COLLECTOR LIMIT> 40 MPH (W20-1(0) ONSTRUCTION M6-4(0)-2115 AHEAD M6-1(0)-2115 ROAD

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS			
NAME	DATE		
LHA	6/89		
T. RAMMACHER	09/08/94		
J. OBERLE	10/18/95		
A. HOUSEH	03/06/96		
A. HOUSEH	10/15/96		
T. RAMMACHER	01/06/00	l	

ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL AND PROTECTION FOR

SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

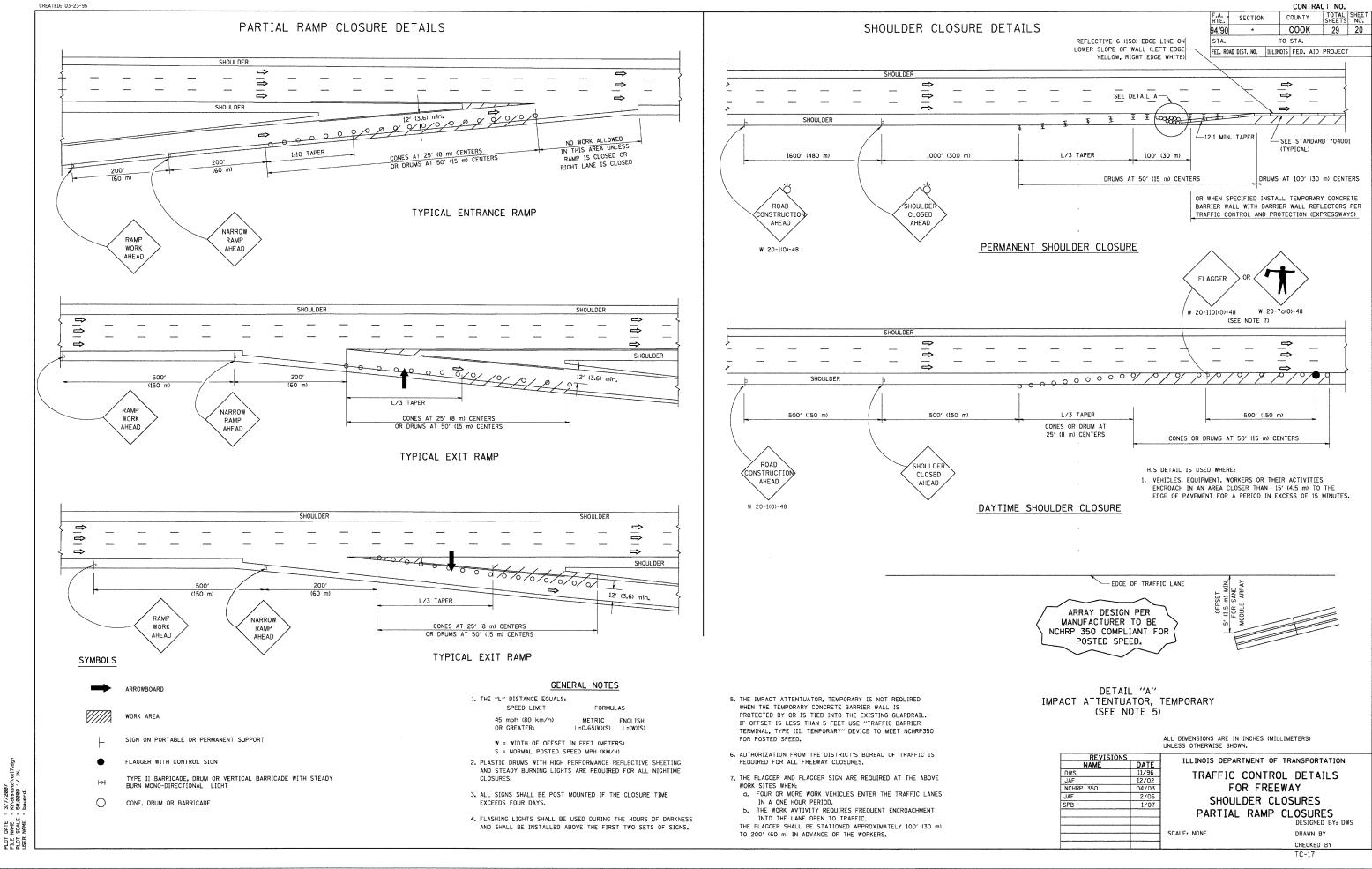
SCALE: NONE

DRAWN BY CHECKED BY

CONTRACT NO.

COUNTY

TC-10



DATE NAME SCALE NAME

CONTRACT NO. COUNTY TOTAL SHEETS NO. COOK 29 21 SECTION 94/90 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT WORK ZONE EXIT OPENING - ARROWBOARD TYPE C (FLASHING A BAR OR 4-CORNER) FLAGGER W20-I101(0)-48 BE PREPARED W20-7a(0)-48 TO STOP 1000 8' (2.4 m) 5' (1.5 m) MIN. CLEAR HEIGHT FEET - BLACK LEGEND ORANGE REFL. BACKGROUND 500' (150 m) 1100' (30 m) 300' (90 m) MIN. 500' (150 m) DRUMS @ 50' (15 m) C-C 0 0 0 TRAFFIC DIRECTION FLAGGER WITH CONTROL SIGN WORK ZONE ENTRY OPENING TRUCKS LEAVING (W21-I105) HIGHWAY 5' (1.5 m) MIN. CLEAR HEIGHT 500' (150 m) |100' (30 m)| 200' (60 m) OPENING TRAFFIC DIRECTION FLAGGER WITH CONTROL SIGN 1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases. 2. Work Zone Exit Openings should be a minimum of one half mile apart. 3. Exiting the work zone at any place other than at a Work Zone Exit Opening will ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN 4. All vehicles shall enter the work zone at entry openings, using their turn REVISIONS NAME DWS JAF signals to warn motorists ILLINOIS DEPARTMENT OF TRANSPORTATION 8/98 4/03 2/06 SIGNING FOR FLAGGING OPERATIONS 1/07 AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD

CHECKED BY

PLOT DATE = 3/7/2007 FILE NAME = KildistskoltolBudgn PLOT SCALE = 50.000 '/ IN. USER NAME = bauerdl

